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WAGNER, MURABITO & HAO LLP			STEVENS, THOMAS H	
Two North Market Street, Third Floor San Jose, CA 95113		•	ART UNIT	PAPER NUMBER
San Jose, CA	95115		2123	

DATE MAILED: 08/02/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	09/904,982	RICHEY ET AL.				
Office Action Summary	Examiner	Art Unit				
	Thomas H. Stevens	2123				
The MAILING DATE of this communication Period for Reply	appears on the cover sheet wit	h the correspondence ad	dress			
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by state of the provided by the Office later than three months after the mearned patent term adjustment. See 37 CFR 1.704(b).	N. R 1.136(a). In no event, however, may a re reply within the statutory minimum of thirty riod will apply and will expire SIX (6) MONT atute. cause the application to become ABA	ply be timely filed (30) days will be considered timel HS from the mailing date of this co	y. ommunication.			
Status						
1) Responsive to communication(s) filed on 3:	1) Responsive to communication(s) filed on <u>31 May 2005</u> .					
	2a)⊠ This action is FINAL . 2b)☐ This action is non-final.					
	, and the state of					
closed in accordance with the practice unde	er Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-53 is/are pending in the applicat 4a) Of the above claim(s) is/are without 5) Claim(s) is/are allowed. 6) Claim(s) 1-53 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction an	drawn from consideration.		·			
Application Papers						
9) The specification is objected to by the Exam 10) The drawing(s) filed on is/are: a) a Applicant may not request that any objection to the Replacement drawing sheet(s) including the con 11) The oath or declaration is objected to by the	accepted or b) objected to b the drawing(s) be held in abeyand rection is required if the drawing(s	ce. See 37 CFR 1.85(a). i) is objected to. See 37 CF	` '			
Priority under 35 U.S.C. § 119						
12) ☐ Acknowledgment is made of a claim for fore a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents. ☐ Copies of the certified copies of the priority documents. ☐ Copies of the certified copies of the priority documents. ☐ Copies of the certified copies of the priority documents. ☐ Copies of the certified copies of the priority documents. ☐ Copies of the certified copies of the priority documents. ☐ Copies of the certified copies of the priority documents. ☐ Copies of the certified copies of the priority documents. ☐ Copies of the certified copies of the priority documents. ☐ Copies of the certified copies of the priority documents. ☐ Copies of the certified copies of the priority documents. ☐ Copies of the certified copies of the priority documents. ☐ Copies of the certified copies of the priority documents. ☐ Copies of the certified copies of the priority documents. ☐ Copies of the certified copies of the priority documents. ☐ Copies of the certified copies of the priority documents. ☐ Copies of the certified copies of the priority documents. ☐ C	ents have been received. ents have been received in Appriority documents have been reau (PCT Rule 17.2(a)).	plication No eceived in this National	Stage			
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/Paper No(s)/Mail Date 		/Mail Date ormal Patent Application (PTC	D-152)			

DETAILED ACTION

1. Claims 1-53 were examined.

Response to Applicants' Arguments (1st Office Action).

Drawings

2. Applicants are thanked for addressing this issue. Objection is withdrawn.

112 (2nd) Rejections

3. Applicants are thanked for addressing this issue. Rejections are withdrawn.

103 Rejections

4. Applicants are thanked for addressing this issue. In response to applicants' arguments against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck* & Co., 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986).

Nonetheless, the Office does not comprehend the distinction between the applicants' term of "generation of simulation application" and the Sato reference of "performing simulator testing" (applicants' arguments pg. 22), since both phrases (stand alone) are conducting the same event for the same purpose. Furthermore, applicants argue that the prior art of Schuster does not teach or suggest simulation sequence based on communication sequences (applicants' arguments pg. 23, 2nd paragraph, lines 1-8), which the Office refutes (Shuster: column 5, lines 28-35): *Provided with the*

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invention, experimental simulations have shown that when a real-time media stream is transmitted end-to-end over the Internet at even a low bit rate of 28 kbps and with a 25% rate of packet loss, the resulting media signal can look and/or sound very good. Further, in experimental simulations, the present invention has been shown to double browsing speed on the World Wide Web interface of the Internet.

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Rejection stands.

Final Rejection (2nd Office Action) Claim Rejections - 35 USC § 103

- 5. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

7. Claims 1-53 are rejected under 35 U.S.C. 103(a) as unpatentable by Sato (U.S. 6,539,498 (2003)) in view of Schuster et al., (U.S. Patent 6,170,075 (2001)). Sato teaches a method of detecting causes of a computer failure on real devices; but doesn't teach communication sequences. Schuster et al., teaches a method and apparatus for improving the speed and quality of end-to-end data or real-time media transmissions over an Internet (abstract), which involves a communication of sequences (column 12, 17-20). At the time of invention, it would have been obvious to one of ordinary skill in the art to modify Schuster et al. by Sato the improve the existing deficiencies of the data communication structure of real time media signals over the Internet (Shuster: background section, last paragraph).

Claim 1. A method for creating a simulation (Sato: column 4, lines 61-65; and Schuster: column 10, lines 3-5) comprising the steps of: monitoring communication between an end device and a real device during a communication sequence (Sato: columns 1 and 2, lines 64-67 and 1-6, respectively with figure 1), said communication comprising a plurality of line-commands (Schuster: column 12, lines 1-20) from said end device that are directed to said real device, and a plurality of outputs from said real device (Sato: column 8, lines 54-65), each of said outputs generated in response to one of said line-commands (Schuster: column 12, lines 1-20); capturing said communication between said end device and said real device (Sato: column 8, lines 54-65; and Schuster: column 11, lines 10-15); and generating a simulation application based on said communication associated with said communication sequence (Schuster: columns 11 and 12, lines 10-15 and 15-20, respectively), said simulation application able to present

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an identical output from said real device that corresponds to a particular line-command from said plurality of line-commands (Schuster: column 12, lines 1-5).

Claim 2. The method as described in Claim 1, (Sato: column 4, lines 61-65; and Schuster: column 10, lines 3-5; Sato: column 8, lines 54-65; Sato: column 8, lines 54-65; and Schuster: column 11, lines 10-15) wherein said method comprises the further step of: summarizing said plurality of line commands in a summary list, said summary list comprising each of said plurality of line-commands (Schuster: column 12, lines 1-5) as inputted into said real device along with a corresponding description.

Claim 3. The method as described in Claim 1, (Sato: column 4, lines 61-65; and Schuster: column 10, lines 3-5; Sato: column 8, lines 54-65; Sato: column 8, lines 54-65; and Schuster: column 11, lines 10-15) wherein said method comprises the further step of: grouping said plurality of line-commands into a series of steps, each of said series of steps comprising at least one line-command from said plurality of line-commands (Schuster: column 12, lines 37-60).

Claim 4. The method as described in Claim 1, (Sato: column 4, lines 61-65; and Schuster: column 10, lines 3-5; Sato: column 8, lines 54-65; Sato: column 8, lines 54-65; and Schuster: column 11, lines 10-15) wherein said method comprises the further step of: editing of said plurality of line-commands, said plurality of line-commands reflecting and including edited

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line-commands (Schuster: column 12, lines 37-60).

Claim 5. The method as described in Claim 4, (Sato: column 4, lines 61-65; and Schuster: column 10, lines 3-5; Sato: column 8, lines 54-65; Sato: column 8, lines 54-65; and Schuster: column 11, lines 10-15) wherein said method comprises the further step of: introducing new line-commands into corresponding steps from said series of steps (Schuster: column 12, lines 37-60).

Claim 6. The method as described in Claim 5, (Sato: column 4, lines 61-65; and Schuster: column 10, lines 3-5; Sato: column 8, lines 54-65; Sato: column 8, lines 54-65; and Schuster: column 11, lines 10-15) wherein said method comprises the further steps of: providing step text for each of said series of steps, said step text including a short description associated with a corresponding step from said series of steps (Schuster: column 12, lines 37-60); and providing step detail for each of said series of steps, (Schuster: column 12, lines 37-60) said step detail including detailed instructions and information associated with a corresponding step from said series of steps.

Claim 7. The method as described in Claim 6, (Sato: column 4, lines 61-65; and Schuster: column 10, lines 3-5; Sato: column 8, lines 54-65; Sato: column 8, lines 54-65; and Schuster: column 11, lines 10-15) wherein said method comprises the further step of: re-running said communication sequence (Schuster: column 12, lines 37-60), such that said plurality of line-commands are inputted into said real device (Sato:

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column 5, lines 56-60) said plurality of line-commands including edited line-commands (Sato column 7, lines 14-16; Schuster: column 13, lines 30-47) and said new line-commands.

Claim 8.The method as described in Claim 7, (Sato: column 4, lines 61-65; and Schuster: column 10, lines 3-5; Sato: column 8, lines 54-65; Sato: column 8, lines 54-65; and Schuster: column 11, lines 10-15) wherein said method comprises the further step of: checking for invalid line-commands (Schuster: column 11, lines 35-41).

Claim 9. The method as described in Claim 8, (Sato: column 4, lines 61-65; and Schuster: column 10, lines 3-5; Sato: column 8, lines 54-65; Sato: column 8, lines 54-65; and Schuster: column 11, lines 10-15) wherein said method comprises the further step of: determining all permutations for each of said series of steps, wherein each permutation comprises a unique combination and order of line-commands (Schuster: column 13, 30-47) and their corresponding outputs from said real device.

Claim 10. The method as described in Claim 9, (Sato: column 4, lines 61-65; and Schuster: column 10, lines 3-5; Sato: column 8, lines 54-65; Sato: column 8, lines 54-65; and Schuster: column 11, lines 10-15; Schuster: column 13, 30-47) wherein said simulation application is an exercise that simulates a realistic (Schuster: column 14, lines 61-67) interaction with said real device, said simulation application presenting realistic (Schuster: column 14, lines 61-67) outputs to command-line inputs into said

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real device in a simulated environment, said realistic outputs (Schuster: column 14, lines 61-67) corresponding to said plurality of outputs as determined by said method, said realistic outputs presented along with said step text and said step detail in an instructional exercise format.

Claim 11.The method as described in Claim 9, (Sato: column 4, lines 61-65; and Schuster: column 10, lines 3-5; Sato: column 8, lines 54-65; Sato: column 8, lines 54-65; and Schuster: column 11, lines 10-15; Schuster: column 13, 30-47; Schuster: column 14, lines 61-67) wherein said method is performed at a server (Schuster: column 12, lines 13-20) coupled to said end device and said real device.

Claim 12. A method for creating a simulation comprising the steps of (Sato: column 4, lines 61-65; and Schuster: column 10, lines 3-5): monitoring communication between an end device and a real device during a communication sequence, (Sato: columns 1 and 2, lines 64-67 and 1-6, respectively with figure 1) said communication sequence relating to a realistic interaction with said real device, said communication comprising a plurality of inputs from said end device that is directed to said real device (Sato: column 8, lines 54-65), and a plurality of outputs (Schuster: column 10, lines 55-58) from said real device to said plurality of inputs, each of said plurality of outputs generated in response to one of said plurality of inputs; capturing said communication between said end device and said real device (Schuster: column 12, lines 13-15); determining sequence, forming all permutations for said communication a plurality of permutations for said

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communication sequence, (Schuster: columns 11 and 12, lines 10-15 and 15-20, respectively) each of said plurality of permutation comprising a unique combination and order of inputs and their corresponding outputs; and generating a simulation application based on said communication associated with said communication sequence, (Schuster: columns 11 and 12, lines 10-15 and 15-20, respectively) said simulation application able to present an identical output to a particular input corresponding to a particular permutation for said communication sequence.

Claim 13. The method as described in Claim 12, (Sato: column 4, lines 61-65; and Schuster: column 10, lines 3-5; Sato: columns 1 and 2, lines 64-67 and 1-6, respectively with figure 1; Schuster: columns 11 and 12, lines 10-15 and 15-20, respectively) wherein said method comprises the further steps of: checking for invalid inputs (Schuster: column 11, lines 35-40) in said and providing notification at said end invalid inputs-device of said plurality of inputs.

Claim 14. The method as described in Claim 12, (Sato: column 4, lines 61-65; and Schuster: column 10, lines 3-5; Sato: columns 1 and 2, lines 64-67 and 1-6, respectively with figure 1; Schuster: columns 11 and 12, lines 10-15 and 15-20, respectively) wherein said method comprises the further steps of: flagging predetermined items of interest; and providing notification at said end device of said predetermined items of interest (Sato: column 5, lines 25-30).

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Claim 15. The method as described in Claim12, (Sato: column 4, lines 61-65; and Schuster: column 10, lines 3-5; Sato: columns 1 and 2, lines 64-67 and 1-6, respectively with figure 1; Schuster: columns 11 and 12, lines 10-15 and 15-20, respectively) wherein said method comprises the further steps of: querying said real device for the full syntax of each

input in said plurality of inputs (Sato: column 5, lines 3-30); and replacing each input with their corresponding full syntax (inherent).

Claim 16. The method as described in Claim 12, (Sato: column 4, lines 61-65; and Schuster: column 10, lines 3-5; Sato: columns 1 and 2, lines 64-67 and 1-6, respectively with figure 1; Schuster: columns 11 and 12, lines 10-15 and 15-20, respectively) wherein said method is performed at a server coupled to said end device and said real device (Schuster: columns 6, lines 21-52).

Claim 17. The method as described in Claim 12, (Sato: column 4, lines 61-65; and Schuster: column 10, lines 3-5; Sato: columns 1 and 2, lines 64-67 and 1-6, respectively with figure 1; Schuster: columns 11 and 12, lines 10-15 and 15-20, respectively) wherein said real device is any Internet network device (Schuster: columns 6, lines 29-30).

Claim 18. The method as described in Claim 12, (Sato: column 4, lines 61-65; and Schuster: column 10, lines 3-5; Sato: columns 1 and 2, lines 64-67 and 1-6, respectively

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with figure 1; Schuster: columns 11 and 12, lines 10-15 and 15-20, respectively) wherein said real device is an Internet content provider (Schuster: columns 6, lines 29-30).

Claim 19. The method as described in Claim 12, (Sato: column 4, lines 61-65; and Schuster: column 10, lines 3-5; Sato: columns 1 and 2, lines 64-67 and 1-6, respectively with figure 1; Schuster: columns 11 and 12, lines 10-15 and 15-20, respectively) wherein said communication is in the form of a command-line interface with line-commands (Schuster: column 12, lines 1-20), each of said plurality of inputs corresponding to one of a plurality of line-commands (Schuster: column 12, lines 1-20).

Claim 20. The method as described in Claim 19 (Sato: column 4, lines 61-65; and Schuster: column 10, lines 3-5; Sato: columns 1 and 2, lines 64-67 and 1-6, respectively with figure 1; Schuster: columns 11 and 12, lines 10-15 and 15-20, respectively; Schuster: column 12, lines 1-20) wherein said method comprises the further steps of: grouping said plurality of line-commands into a series of steps, each of said series of steps comprising at least one line-command from said plurality of line-commands; editing of said plurality of line-commands (Schuster: column 12, lines 1-20), said plurality of line-commands reflecting and including edited line-commands (Sato column 7, lines 14-16; Schuster: column 13, lines 30-47); introducing new line-commands into corresponding steps from said series of steps; providing step text for each of said series of steps, said step text including a short description associated with a corresponding

step from said series of steps (Schuster: column 12, lines 26-48); providing step detail for each of said series of steps, said step detail including detailed instructions and information associated with a series of steps; corresponding step from said communication sequence, (Schuster: column 12, lines 37-60) such that said plurality of line-commands are inputted into said real device, said plurality of line-commands including edited line-commands and said new line-commands (Sato column 7, lines 14-16; Schuster: column 13, lines 30-47); re-running said checking for invalid line-commands (Schuster: column 11, lines 34-40; column 14, lines 55-60); and automatically determining all permutations for each of said series of steps (Sato: column 8, lines 57-67), wherein each permutation comprises a unique combination and order of line-commands (Schuster: column 13, 30-47) and their corresponding outputs from said real device.

Claim 21. The method as described in Claim 20, (Sato: column 4, lines 61-65; and Schuster: column 10, lines 3-5; Sato: columns 1 and 2, lines 64-67 and 1-6, respectively with figure 1; Schuster: columns 11 and 12, lines 10-15 and 15-20, respectively; Schuster: column 12, lines 1-20; Schuster: column 12, lines 26-48 Sato: column 8, lines 57-67) wherein said simulation application is a computer based exercise that simulates said realistic interaction with said real device, said simulation application presenting realistic outputs (Schuster: column 10, lines 56-58) to command-line inputs into said real device in a simulated environment, said realistic outputs as determined by said

method, said realistic outputs presented along with said step text and said step detail in an instructional exercise format.

Claim 22. A computer system (Sato: column 7, lines 35-37) comprising a processor, a memory unit, and a display screen wherein said memory contains instructions that when executed implement a method of creating a simulation comprising the steps of: monitoring communication between an end device and a real device (Sato: column 8, lines 54-65) during a communication sequencer said communication comprising a plurality of line-commands (from said end device that are directed to said real device, and a plurality of outputs (Schuster: column 10, lines 55-58) from said real device, each of said plurality of outputs generated in response to one of said plurality of linecommands; capturing said communication between said end device and said real device (Schuster: column 6, lines 1-52); and simulation application based on said communication associated with said communication sequence, (Schuster: columns 11 and 12, lines 10-15 and 15-20, respectively) said simulation application able to present an identical output from said real device (Sato: column 7, lines 58-61) that corresponds to a particular line-command from said plurality of line-commands (Schuster: column 12, lines 37-60).

Claim 23. The computer system as described in Claim 22, (Sato: column 7, lines 35-37; Sato: column 8, lines 54-65; Schuster: column 10, lines 55-58; Schuster: columns 11 and 12, lines 10-15 and 15-20, respectively; Schuster: column 12, lines 37-60) wherein

said method comprises the further step of: summarizing said plurality of line commands in a summary

list (Schuster: column, lines 13-48), said summary list comprising each of said plurality of line-commands as inputted into said real device (Sato: column 7, lines 58-61) along with a corresponding description.

Claim 24. The computer system as described in Claim 22, (Sato: column 7, lines 35-37; Sato: column 8, lines 54-65; Schuster: column 10, lines 55-58; Schuster: columns 11 and 12, lines 10-15 and 15-20, respectively; Schuster: column 12, lines 37-60) wherein said method comprises the further step of: grouping said plurality of line-commands (Sato column 7, lines 14-16; Schuster: column 13, lines 30-47) into a series of steps, each of said series of steps comprising at least one line-command from said plurality of line-commands.

Claim 25. The computer system as described in Claim 22, (Sato: column 7, lines 35-37; Sato: column 8, lines 54-65; Schuster: column 10, lines 55-58; Schuster: columns 11 and 12, lines 10-15 and 15-20, respectively; Schuster: column 12, lines 37-60) wherein said method comprises the further step of: editing (Schuster: column 12, lines 37-60) of said plurality of line-commands, said plurality of line-commands reflecting and including edited line-commands (Sato column 7, lines 14-16; Schuster: column 13, lines 30-47).

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Claim 26. The computer system as described in Claim 25, (Sato: column 7, lines 35-37; Sato: column 8, lines 54-65; Schuster: column 10, lines 55-58; Schuster: columns 11 and 12, lines 10-15 and 15-20, respectively; Schuster: column 12, lines 37-60) said method comprises the further step of: introducing new line-commands (Schuster: column 13, 30-47) into corresponding steps from said series of steps.

Claim 27. The computer system as described in Claim 26, (Sato: column 7, lines 35-37; Sato: column 8, lines 54-65; Schuster: column 10, lines 55-58; Schuster: columns 11 and 12, lines 10-15 and 15-20, respectively; Schuster: column 12, lines 37-60) wherein said method comprises the further steps of: providing step text for each of said series of steps, said step text including a short description associated with a corresponding step from said series of steps (Schuster: column 12, lines 13-48; with Sato figures 1-3); and providing step detail for each of said series of steps (Schuster: column 12, lines 13-48; with Sato figures 1-3), said step detail including detailed instructions and information associated with a corresponding step from said series of steps.

Claim 28. The computer system as described in Claim 27, (Sato: column 7, lines 35-37; Sato: column 8, lines 54-65; Schuster: column 10, lines 55-58; Schuster: columns 11 and 12, lines 10-15 and 15-20, respectively; Schuster: column 12, lines 37-60) wherein said method comprises the further step of: re-running said communication sequence, (Schuster: columns 11 and 12, lines 10-15 and 15-20, respectively) such that said plurality of line-commands are inputted into said real device, said plurality of line-

commands (Sato column 7, lines 14-16; Schuster: column 13, lines 30-47) including edited line-commands and said new line-commands.

Claim 29. The computer system as described in Claim 28, (Sato: column 7, lines 35-37; Sato: column 8, lines 54-65; Schuster: column 10, lines 55-58; Schuster: columns 11 and 12, lines 10-15 and 15-20, respectively; Schuster: column 12, lines 37-60; Sato column 7, lines 14-16; Schuster: column 13, lines 30-47) wherein said method comprises the further step of: checking for invalid line-commands (Schuster: column 11, lines 35-41).

Claim 30. The computer system as described in Claim 29, (Sato: column 7, lines 35-37; Sato: column 8, lines 54-65; Schuster: column 10, lines 55-58; Schuster: columns 11 and 12, lines 10-15 and 15-20, respectively; Schuster: column 12, lines 37-60; Sato column 7, lines 14-16; Schuster: column 13, lines 30-47; Schuster: column 11, lines 35-41) wherein said method comprises the further step of: determining all permutations for each of said series of steps, wherein each permutation comprises a unique combination and order of line-commands (Schuster: column 13, 30-47) and their corresponding outputs from said real device.

Claim 31. The computer system as described in Claim 30, (Sato: column 7, lines 35-37; Sato: column 8, lines 54-65; Schuster: column 10, lines 55-58; Schuster: columns 11 and 12, lines 10-15 and 15-20, respectively; Schuster: column 12, lines 37-60; Sato

column 7, lines 14-16; Schuster: column 13, lines 30-47; Schuster: column 11, lines 35-41) wherein said simulation application is an exercise that simulates a realistic interaction with said real device, said simulation application presenting realistic outputs (Schuster: column 10, lines 55-58) command-line inputs into said real device in a simulated environment, said realistic outputs corresponding to said plurality of outputs as determined by said method, said realistic outputs presented along with said step text and said step detail in an instructional exercise format (Sato: column 8, lines 25-31).

Claim 32. The computer system as described in Claim 30, (Sato: column 7, lines 35-37; Sato: column 8, lines 54-65; Schuster: column 10, lines 55-58; Schuster: columns 11 and 12, lines 10-15 and 15-20, respectively; Schuster: column 12, lines 37-60; Sato column 7, lines 14-16; Schuster: column 13, lines 30-47; Schuster: column 11, lines 35-41) wherein said method is performed at a server coupled (Schuster: columns 9-10, lines 61-67 and column 11, lines 64-67) to said end device and said real device.

Claim 33. A computer-readable medium (Sato: column 7, lines 35-37) executable instructions for performing comprising computer a method of creating a steps of: an end device and a simulation, said method comprising the monitoring communication between real device (Sato: columns 8-9, lines 66-67 and 1-37, respectively) during communication comprising a plurality of line-commands from said end device that are

directed to said real device, and a plurality of outputs from said real device (Schuster: column 10, lines 56-65), each of said plurality of outputs generated in response to one of said plurality of line-commands; capturing said communication between said end device and said real device (Schuster: column 12, lines 13-24 with Sato: column 8, lines 57-67); and generating a simulation application based on said communication associated with said communication sequence, (Schuster: column 12, lines 13-24 with Sato: column 8, lines 57-67) said simulation application able to present an identical output (Schuster: column 10, lines 56-65) from said real device that corresponds to a particular line-command from said plurality of line-commands.

Claim 34. The computer-readable medium as described in Claim 33, (Sato: column 7, lines 35-37; columns 8-9, lines 66-67 and 1-37, respectively; Schuster: column 10, lines 56-65; Schuster: column 12, lines 13-24 with Sato: column 8, lines 57-67) wherein said method comprises the further step of: summarizing said plurality of line commands in a summary

list, (Schuster: column, lines 13-48) said summary list comprising each of said plurality of line-commands as inputted into said real device (Sato: column 7, lines 58-61) along with a corresponding description.

Claim 35. The computer-readable medium as described in Claim 33 (Sato: column 7, lines 35-37; columns 8-9, lines 66-67 and 1-37, respectively; Schuster: column 10, lines 56-65; Schuster: column 12, lines 13-24 with Sato: column 8, lines 57-67) wherein said

method comprises the further step of: grouping said plurality of line-commands (Sato column 7, lines 14-16; Schuster: column 13, lines 30-47) into a series of steps, each of said series of steps comprising at least one line-command from said plurality of line-commands.

Claim 36. The computer-readable medium as described in Claim 33, (Sato: column 7, lines 35-37; columns 8-9, lines 66-67 and 1-37, respectively; Schuster: column 10, lines 56-65; Schuster: column 12, lines 13-24 with Sato: column 8, lines 57-67) wherein said method comprises the further step of: editing (Schuster: column 12, lines 37-60) of said plurality of line-commands, said plurality of line-commands (Sato column 7, lines 14-16; Schuster: column 13, lines 30-47) reflecting and including edited line-commands.

Claim 37. The computer-readable medium as described in Claim 36, (Sato: column 7, lines 35-37; columns 8-9, lines 66-67 and 1-37, respectively; Schuster: column 10, lines 56-65; Schuster: column 12, lines 13-24 with Sato: column 8, lines 57-67; Sato column 7, lines 14-16; Schuster: column 13, lines 30-47) wherein said method comprises the further step of: introducing new line-commands into corresponding steps from said series of steps (Schuster: column 12, lines 13-48; with Sato figures 1-3; Sato: columns 6-7, lines 66-67 and 1-3).

Claim 38. The computer-readable medium as described in Claim 37, (Sato: column 7, lines 35-37; columns 8-9, lines 66-67 and 1-37, respectively; Schuster: column 10, lines

56-65; Schuster: column 12, lines 13-24 with Sato: column 8, lines 57-67; Sato column 7, lines 14-16; Schuster: column 13, lines 30-47) wherein said method comprises the further steps of: providing step text for each of said series of steps, said step text including a short description associated with a corresponding step from said series of steps; and providing step detail for each of said series of steps, (Schuster: column 12, lines 13-48; with Sato figures 1-3; Sato: columns 6-7, lines 66-67 and 1-3) said step detail including detailed instructions (Sato: column 8, lines 25-31) and information associated with a corresponding step from said series of steps.

Claim 39. The computer-readable medium as described in Claim 38, (Sato: column 7, lines 35-37; columns 8-9, lines 66-67 and 1-37, respectively; Schuster: column 10, lines 56-65; Schuster: column 12, lines 13-24 with Sato: column 8, lines 57-67; Sato column 7, lines 14-16; Schuster: column 13, lines 30-47; Schuster: column 12, lines 13-48; with Sato figures 1-3; Sato: columns 6-7, lines 66-67 and 1-3; Sato: column 8, lines 25-31) wherein said method comprises the further step of: automatically re-running said communication sequence (Schuster: columns 11 and 12, lines 10-15 and 15-20, respectively), such that said plurality of line-commands (Sato column 7, lines 14-16; Schuster: column 13, lines 30-47) are inputted into said real device, said plurality of line-commands including edited line-commands and said new line-commands.

Claim 40. The computer-readable medium as described in Claim 38, (Sato: column 7, lines 35-37; columns 8-9, lines 66-67 and 1-37, respectively; Schuster: column 10, lines

56-65; Schuster: column 12, lines 13-24 with Sato: column 8, lines 57-67; Sato column 7, lines 14-16; Schuster: column 13, lines 30-47; Schuster: column 12, lines 13-48; with Sato figures 1-3; Sato: columns 6-7, lines 66-67 and 1-3; Sato: column 8, lines 25-31) wherein said method comprises the further step of: (Schuster: column 11, lines 35-41) checking for invalid line-commands.

Claim 41. The computer-readable medium as described in Claim 40, (Sato: column 7, lines 35-37; columns 8-9, lines 66-67 and 1-37, respectively; Schuster: column 10, lines 56-65; Schuster: column 12, lines 13-24 with Sato: column 8, lines 57-67; Sato column 7, lines 14-16; Schuster: column 13, lines 30-47; Schuster: column 12, lines 13-48; with Sato figures 1-3; Sato: columns 6-7, lines 66-67 and 1-3; Sato: column 8, lines 25-31; Schuster: column 11, lines 35-41) wherein said method comprises the further step of: determining all permutations for each of said series of steps, wherein each permutation comprises a unique combination and order of line-commands (Schuster: column 13, 30-47) and their corresponding outputs from said real device.

Claim 42. The computer-readable medium as described in Claim 41, (Sato: column 7, lines 35-37; columns 8-9, lines 66-67 and 1-37, respectively; Schuster: column 10, lines 56-65; Schuster: column 12, lines 13-24 with Sato: column 8, lines 57-67; Sato column 7, lines 14-16; Schuster: column 13, lines 30-47; Schuster: column 12, lines 13-48; with Sato figures 1-3; Sato: columns 6-7, lines 66-67 and 1-3; Sato: column 8, lines 25-31; Schuster: column 11, lines 35-41) wherein said simulation application is an exercise that

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simulates a realistic interaction with said real device, said simulation application presenting realistic outputs to command-line inputs into said real device in a simulated environment, said realistic outputs corresponding to said plurality of outputs as determined by said method, said realistic outputs (Schuster: column 10, lines 55-58) presented along with said step text and said step detail in an instructional exercise format (Sato: column 8, lines 25-31).

Claim 43. The computer-readable medium as described in Claim 41(Sato: column 7, lines 35-37; columns 8-9, lines 66-67 and 1-37, respectively; Schuster: column 10, lines 56-65; Schuster: column 12, lines 13-24 with Sato: column 8, lines 57-67; Sato column 7, lines 14-16; Schuster: column 13, lines 30-47; Schuster: column 12, lines 13-48; with Sato figures 1-3; Sato: columns 6-7, lines 66-67 and 1-3; Sato: column 8, lines 25-31; Schuster: column 11, lines 35-41) wherein said method is performed at a server coupled (Schuster: columns 9-10, lines 61-67 and column 11, lines 64-67) to said end device and said real device.

Claim 44. A simulation (Sato: column 4, lines 61-65; and Schuster: column 10, lines 3-5) generating mechanism for creating a simulation comprising (Sato: column 5, lines 1-30): means for monitoring communication between an end device and a real device during a communication sequence (Sato: columns 1 and 2, lines 64-67 and 1-6, respectively with figure 1), said communication comprising a plurality of line-commands (Schuster: column 12, lines 1-20) from said end device that are directed to said real device, and a

plurality of outputs from said real device, each of said plurality of outputs generated in response to one said plurality of line-commands (Sato: column 8, lines 54-65; and Schuster: column 11, lines 10-15); means for capturing said communication between said end device and said real device (Schuster: column 12, lines 13-24 with Sato: column 8, lines 57-67); and means for generating a simulation application based on said communication associated with said communication sequence, (Schuster: column 12, lines 13-24 with Sato: column 8, lines 57-67) said simulation application able to present an identical output (Schuster: column 10, lines 56-65) from said real device that corresponds to a particular line-command from said plurality of line-commands.

Claim 45. The simulation generating mechanism as described in Claim 44, (Sato: column 4, lines 61-65; and Schuster: column 10, lines 3-5; Sato: columns 1 and 2, lines 64-67 and 1-6, respectively with figure 1; Sato: column 8, lines 54-65; and Schuster: column 11, lines 10-15) further comprises: means for summarizing said plurality of line commands in

a summary list, (Schuster: column, lines 13-48) said summary list comprising each of said plurality of line-command as inputted into said real device (Sato: column 7, lines 58-61) along with a corresponding description.

Claim 46. The simulation generating mechanism as described in Claim 44, (Sato: column 4, lines 61-65; and Schuster: column 10, lines 3-5; Sato: columns 1 and 2, lines 64-67 and 1-6, respectively with figure 1; Sato: column 8, lines 54-65; and Schuster:

column 11, lines 10-15) further comprising: means for grouping said plurality of line-commands (Sato column 7, lines 14-16; Schuster: column 13, lines 30-47) into series of steps, each of said series of steps comprising at least one line-command from said plurality of line-commands.

Claim 47. The simulation generating mechanism as described in Claim 44, (Sato: column 7, lines 35-37; columns 8-9, lines 66-67 and 1-37, respectively; Schuster: column 10, lines 56-65; Schuster: column 12, lines 13-24 with Sato: column 8, lines 57-67; Sato column 7, lines 14-16; Schuster: column 13, lines 30-47) further comprising: means for editing of said plurality of line-commands, said plurality of line-commands reflecting and including edited line-commands (Schuster: column 12, lines 37-60).

Claim 48. The simulation generating mechanism as described Claim 47, (Sato: column 7, lines 35-37; columns 8-9, lines 66-67 and 1-37, respectively; Schuster: column 10, lines 56-65; Schuster: column 12, lines 13-24 with Sato: column 8, lines 57-67; Sato column 7, lines 14-16; Schuster: column 13, lines 30-47; Schuster: column 12, lines 37-60) further comprising: means for introducing new line-commands (Sato column 7, lines 14-16; Schuster: column 13, lines 30-47) into corresponding steps from said series of steps.

Claim 49. The simulation generating mechanism as described in Claim 48, (Sato: column 7, lines 35-37; columns 8-9, lines 66-67 and 1-37, respectively; Schuster: column 10, lines 56-65; Schuster: column 12, lines 13-24 with Sato: column 8, lines 57-67; Sato column 7, lines 14-16; Schuster: column 13, lines 30-47; Schuster: column 12,

lines 37-60) further comprising: means for providing step text for each of said series of steps, said step text including a short description associated with a corresponding step from said series of steps; and means for providing step detail for each of said series of steps, (Schuster: column 12, lines 13-48; with Sato figures 1-3; Sato: columns 6-7, lines 66-67 and 1-3) said step detail including detailed instructions (Sato: column 8, lines 25-31) and information associated with a corresponding step from said series of steps.

Claim 50. The simulation generating mechanism as described in Claim 49, (Sato: column 7, lines 35-37; columns 8-9, lines 66-67 and 1-37, respectively; Schuster: column 10, lines 56-65; Schuster: column 12, lines 13-24 with Sato: column 8, lines 57-67; Sato column 7, lines 14-16; Schuster: column 13, lines 30-47; Schuster: column 12, lines 37-60) further comprising: means for re-running said communication sequence, such that said plurality of line-commands (Sato column 7, lines 14-16; Schuster: column 13, lines 30-47) are inputted into said real device, said plurality of line-commands including edited line-commands and said new line-commands.

Claim 51. The simulation generating mechanism as described in Claim 50, (Sato: column 7, lines 35-37; columns 8-9, lines 66-67 and 1-37, respectively; Schuster: column 10, lines 56-65; Schuster: column 12, lines 13-24 with Sato: column 8, lines 57-67; Sato column 7, lines 14-16; Schuster: column 13, lines 30-47; Schuster: column 12, lines 37-60) further comprising: means for checking for invalid line-commands (Schuster: column 11, lines 35-41).

Claim 52. The simulation generating mechanism as described in further comprising:

Claim 51(Sato: column 7, lines 35-37; columns 8-9, lines 66-67 and 1-37, respectively;

Schuster: column 10, lines 56-65; Schuster: column 12, lines 13-24 with Sato: column 8, lines 57-67; Sato column 7, lines 14-16; Schuster: column 13, lines 30-47; Schuster: column 12, lines 37-60) means for determining all permutations for each of said series of steps, wherein each permutation comprises a unique combination and order of line-commands (Schuster: column 13, 30-47) and their corresponding outputs from said real device.

Claim 53. The simulation generating mechanism as described in Claim 52, (Sato: column 7, lines 35-37; columns 8-9, lines 66-67 and 1-37, respectively; Schuster: column 10, lines 56-65; Schuster: column 12, lines 13-24 with Sato: column 8, lines 57-67; Sato column 7, lines 14-16; Schuster: column 13, lines 30-47; Schuster: column 12, lines 37-60) wherein said simulation application is an exercise that simulates a realistic interaction with said real device, said simulation application presenting realistic outputs to command-line inputs into said real device in a simulated environment, said realistic outputs corresponding to said plurality of outputs (Schuster: column 10, lines 55-58) as determined by said method, said real- life outputs presented along with said step text and said step detail in an instructional exercise format (Sato: column 8, lines 25-31).

Conclusion

8. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Correspondence Information

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mr. Tom Stevens whose telephone number is 571-272-3715, Monday-Friday (8:00 am- 4:30 pm) or contact Supervisor Mr. Leo Picard at (571) 272-3749. Central Fax number is 571-273-8300.

Any inquiry of a general nature or relating to the status of this application should be directed to the TC 2100 Group receptionist: 571-272-2100.

July 26, 2005

Primary Examiner
Art Unit 2125

THS